



## Water Resources Program

### FORM 1 - Measuring Device Information

Please fill out one form for each measuring device.

RECEIVED

APR 01 2013

WA State Department  
of Ecology (SWRO)

<u>WATER RIGHT HOLDER(S):</u>	<u>WATER RIGHT DOCUMENT NO(S):</u>
Name(s)	Certificate, Permit, Claim, or Court Claim
RICK WELLS	WATER RIGHT NO. 52-30397
JULIE WELLS	

User's name for diversion/withdrawal point: UNNAMED SPRING PUMP HOUSE #1 (ex. Well #1, Blue well house) UPPER METER HOUSE #2

#### ABOUT THE MEASURING DEVICE:

Please include an up-close photo of the face of the meter.

Flow Type: ☐ Open Channel Flow ☒ Pressurized Pipe Flow

Measure more than one source? ☐ Yes ☒ No If yes, please provide a list of all the sources that share a common measuring device (ex. two wells or two pumped diversions):

Meter Type (ex. magnetic, propeller, flume, etc.):

MAGNETIC

Brand:

SENSUS

Model No.:

5/8 SR II

Serial No.:

74936326

Units of Measure (gal, cfs, or ac-ft):

GAL.

Device Roll-Over No.:

000.01

Device Multiplier (ex. X100, X0.01):

X0.01

Date Installed/Calibrated:

12/15/2012

Fish screen for surface water diversion? ☐ Yes ☒ No

THERE ARE NO FISH IN THIS PARTICULAR AREA

#### LOCATION OF THE MEASURING DEVICE:

Section: 29 Township: 25N Range: 02W (1/4): NE (1/4): NE

Latitude (optional):

47.6341

Longitude (optional):

-122.9507

(NAD 83 Datum in Decimal Degrees preferred)

Is meter within 100 feet of the point of diversion or withdrawal? ☒ Yes ☐ No

COMMENTS: THIS IS A SURFACE SPRING THAT SEEMS TO BE FLOWING NR. RND.  
THERE WILL BE ONE METER FOR MEASURING

I hereby certify that all information reported on this form is correct to the best of my knowledge.

Printed Name: RICK WELLS & JULIE WELLS

Phone No.: 425-433-0611  
(206) 459-4903

Address: 19233 SE 234th PL.

City: RENTON

State: WA.

E-mail: RICKWELLS@MSN.COM

Signature: Julia Wells

Date: 3/28/2013



## **Instructions for Form 1 – Meter Information**

- 1) Can be used for both OPEN CHANNEL and PRESSURIZED FLOW SYSTEMS
- 2) Please fill out one form for each measuring device.
- 3) This form should only be filled out once. However, if the measuring device is replaced at a later date, a new Form 1 is required.
- 4) Please sign and date before submitting.

### **Water Right Information:**

- **Name of the water right holder(s) and water right document(s):** Please list all the water right documents and water right holder associated with this metered point of diversion or withdrawal.
- **User's name for diversion/withdrawal point:** Fill in the name that you or your organization uses to describe the diversion or withdrawal measured by this measuring device.

### **Measuring Device:**

- **Flow Type:** Indicate whether the measuring device is for an open channel or pressurized pipe flow.
- **Measures more than one source:** Indicate whether or not more than one source is measured by the measuring device. If yes, please provide a list of all the sources that share a common measuring device (i.e. two wells or two pumped diversions).
- **Meter Type:** Provide the type of measuring device for open channel (i.e. ramp flume, weir, staff gage, etc.) or the type of measuring device for pressurized flow (i.e. magnetic, propeller, insertion, etc).
- **Brand, Model No, and Serial No:** Provide the appropriate information about the measuring device itself.
- **Units of Measure:** Provide the units of measure particular to the meter. Definition of the terms on the form are: Gallons per minute (gpm), Cubic feet per second(cfs), or Acre feet (ac-ft).
- **Device Roll Over No:** Provide the number on which the measuring device will roll over and restart at "0."
- **Device Multiplier:** If applicable, indicate the multiplier on the device (i.e. X10, X100 or X.01)
- **Date Installed and Calibrated:** Provide the date the device was installed and calibrated.
- **Fish screen for surface water diversion:** By law, Ecology is required to ask if a fish screen has been installed on surface water diversions. Please indicate yes or no.

### **Location of the Measuring Device:**

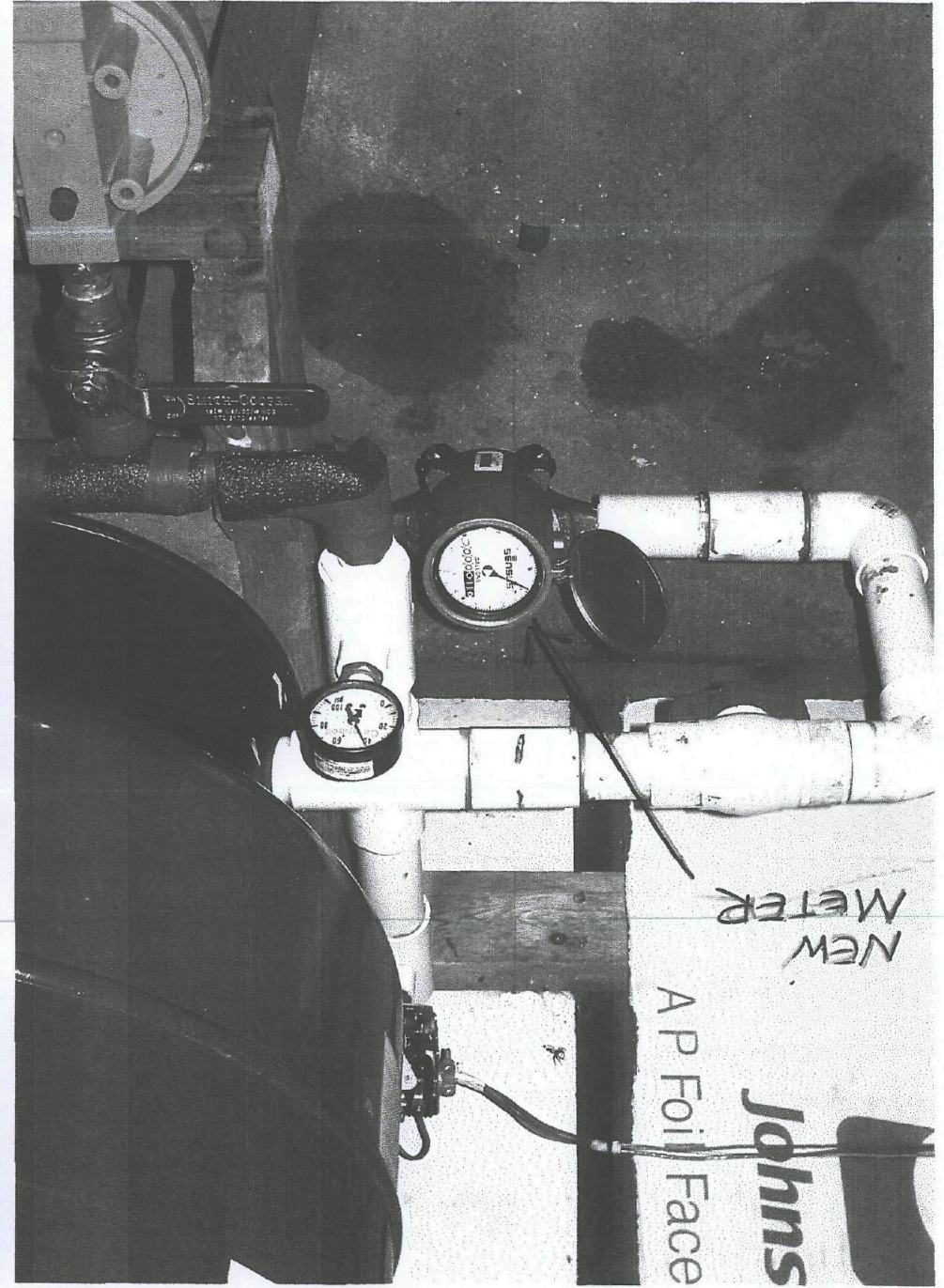
- **Section, Township, Range, ¼, ¼¼:** Please indicate the Township, Range, Section, quarter, and quarter quarter information for identifying the location of the measuring device.
- **Latitude/Longitude (optional):** If possible, provide the latitude and longitude coordinates in North American Datum 83 (NAD 83) in decimal degrees for the location of the measuring device.
- **Is the Meter within 100 feet of the point of diversion or withdrawal:** Check yes or no.

### **Comments**

Provide any additional information or comments you feel is helpful.



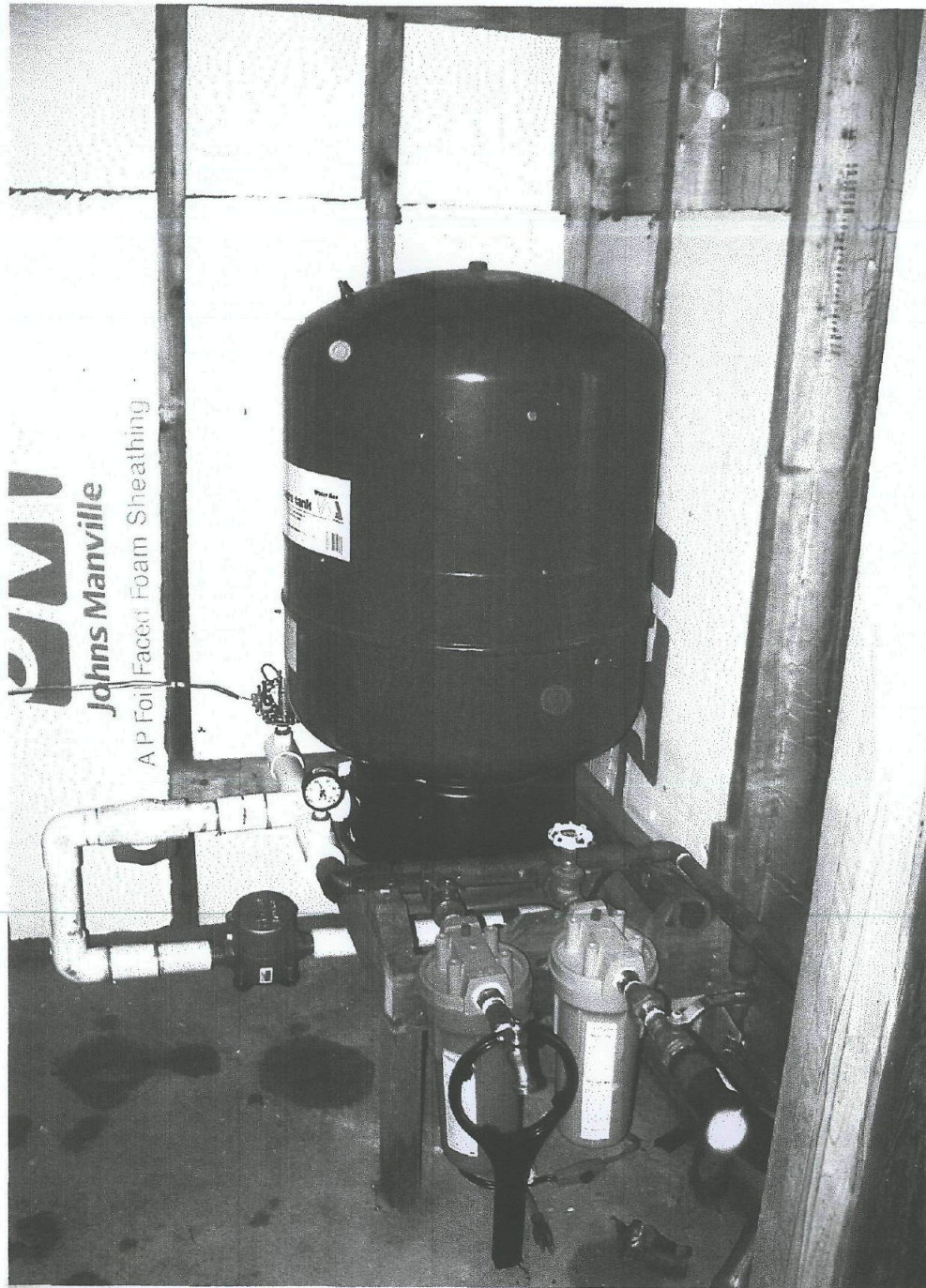
\* UPPER METER HOUSE # 2



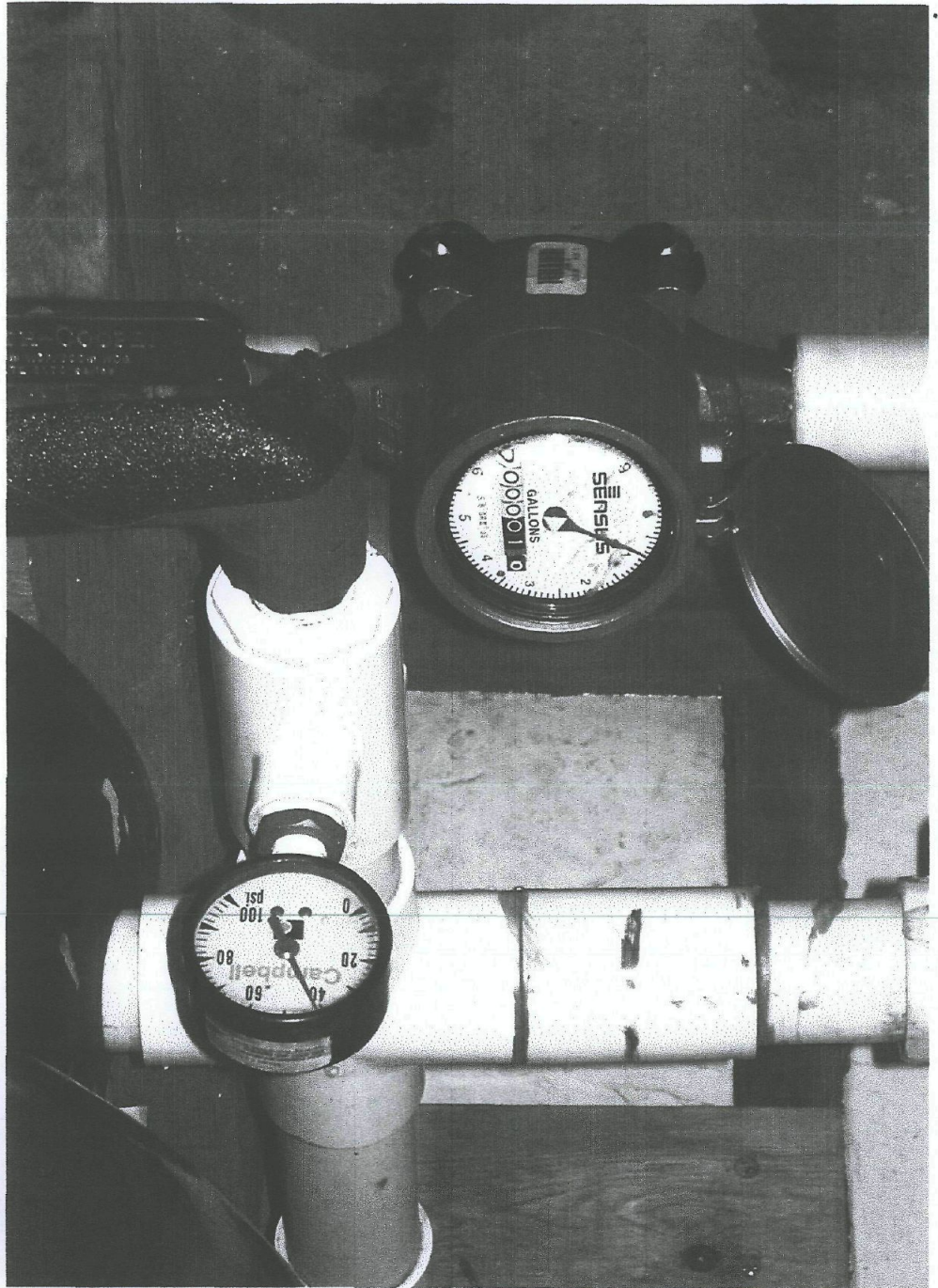
\* NEW METER

NEW METER





\* UPPER PRESSURE TANK W/ NEW METER & FILTERS



\* NEW METER UP CLOSE



# SR<sup>®</sup> Meters

## Specifications

### For Cold Water Meters Displacement Type with Direct Read Registers 5/8" – 2" SR Sizes

#### TYPE

Magnetic Drive, Sealed Register, Positive Displacement Type Oscillating Piston only.

#### SIZE

Must conform to American Water Works Standard C-700 as most recently revised.

#### LENGTH

Must conform to American Water Works Standard C-700 as most recently revised.

#### CASES

All meters shall have a non-corrosive Water Works bronze (minimum 75% copper content) outer case with a separate measuring chamber which can easily be removed from the case. All meters shall have cast on them, in raised characters, the size and direction of water flow through the meter. Case iron frost bottoms, or bronze bottoms shall be provided on 5/8", 3/4", and 1" size meters. 1- 1/2" and 2" meters shall be the split case type with bronze lower and upper shell assemblies. The manufacturer's serial number must be permanently affixed to the maincase to aid in identification and must be visible so that it can be read from directly above the water meter.

#### EXTERNAL BOLTS AND WASHERS

All external bolts and washers shall be of corrosion resistant material and be easily removed from the maincase. All threaded maincase bolt holes must be covered, to aid in removal of the bolts for repair.

#### REGISTER

The register must be of the straight reading type with a large red test or sweep hand and shall include a low flow indicator on the dial face. The numeral wheel assembly shall be located at the bottom of the dial face with reading obtained from left to right. Registration shall be in cubic feet, gallons or metric units. All reduction gearing shall be contained in a permanently hermetically sealed, tamperproof enclosure made from a stainless steel material, covered with a heat tempered glass lens.

The register shall be secured to the maincase by means of a locking device located in the interior of the meter so the register cannot be removed externally by non-utility personnel. An external register box assembly is not acceptable. The register must be covered so as to protect the register by a lid constructed of a copper based alloy or a suitable synthetic polymer.

#### MEASURING CHAMBER

The measuring chamber shall be of Water Works bronze (minimum 85% copper content) or a suitable synthetic polymer and shall not be cast as part of the maincase. All piston assemblies shall be interchangeable in all

measuring chamber assemblies of the same size. The measuring chamber shall be held in place without the use of fasteners.

The measuring chamber piston shall operate against a replaceable control roller, allowing for repair to AWWA standards. The control roller shall rotate on a stainless measuring chamber steel pin, to provide added strength, wear resistance and corrosion resistance. There shall be an elastomeric seal or seals between measured and unmeasured water, preventing leakage around the measuring element.

#### MAGNETIC COUPLING

The motion of the piston will be transmitted to the sealed register through the use of a direct magnetic drive without any intermediate coupling.

#### STRAINERS

All meters must be provided with a corrosion resistant strainer which is easily removable from the meter without the meter itself being disconnected from the pipeline.

#### CHANGE GEARS

Change gears will not be allowed to calibrate the meter. All registers of a particular registration and meter size shall be identical and completely interchangeable. Should meters arrive with registers containing more than one gear combination, the entire shipment will be returned to the manufacturer freight collect and the next responsible bidder will receive the award.

#### ACCURACY AND HEADLOSS TESTS

Meters shall conform to current AWWA C-700, current revision, test flows, head loss and accuracy standards.

#### PRESSURE CAPABILITY

Meters shall operate up to a working pressure of 150 pounds per square inch (psi), without leakage or damage to any parts. The accuracy shall not be affected when operating at this pressure due to possible distortion. Accuracy shall not be affected by variations in pressure up to 150 psi.

#### PERFORMANCE WARRANTIES

In evaluating bid submittals, warranty coverage will be considered. All bidders are required to submit their most current nationally published warranty statements for water meter maincases, registers and measuring chambers.

#### SHIPMENT VERIFICATIONS

A statistically controlled sample of each meter shipment will be tested by the utility to insure each shipment meets the utility performance and materials specifications.





\* 550 GAL. TANK TO HOLD SPRING WATER  
\* ATTACHED TO PUMP HOUSE #1



\* UNNAMED SPRING PUMP HOUSE #1

